

### REMARKS

Claims 4-8 are now pending in the application. Claim 4 has been amended herein. Claim 8 has been added herein. Claims 1-3 have been canceled herein without prejudice. Favorable reconsideration of the application, as amended, is respectfully requested.

#### I. REJECTIONS OF CLAIMS 1-7 UNDER 35 U.S.C. §§ 102 AND 103

Claims 1-3 stand rejected under 35 U.S.C. § 102(b). These claims have been canceled herein without prejudice. As such, the rejections of these claims are believed to be moot now.

Claims 4-7 stand rejected under 35 U.S.C. § 103(a) as being unpatentable over a combination of U.S. Patent No. 5,546,067 (Schmidt), U.S. Patent No. 2,740,026 (Budd 026), and U.S. Patent No. 2,740,027 (Budd 027). Applicant believes that claims 4-7 are allowable for at least the following reasons. Withdrawal of the rejection is respectfully requested.

Independent claim 4 has been amended herein to further clarify one of the aspects of the invention. Specifically, independent claim 4 now requires that "each of the electrical parts includes a wafer, and the wafer is provided integrally with terminals protruding outward," and that "a structure of the wafer is the same among the electrical parts." Support for the amendments is found at, for example, page 9, lines 2-11, and page 16, lines 9-13 of the present specification. No new matter has been introduced by the amendments.

The claimed invention generally relates to an electrical-part mounting structure for mounting a plurality of types of electrical parts, which are different in, for example, function or usage, on the same circuit board. One goal of the invention is to prevent electrical parts of different types from being improperly mounted on the circuit board. As recited in independent claim 4, the present invention requires that at least one positioning protrusion is provided on a bottom face of *each* of the electrical parts so that the *position* of the positioning protrusion *differs according to the type of the electrical part*.

By contrast, the Budd patents (Budd 026 and Budd 027) fails to teach or suggest mounting electrical parts of different types on the same circuit board by utilizing positioning protrusions of which positions differ according to the types of the electrical parts, as claimed.

Claim 4 further requires that each of the electrical parts includes a wafer, and the wafer is provided integrally with terminals protruding outward, and, *inter alia*, a structure of the wafer is the same among the electrical parts. In other words, electrical parts of different types which have the same structure of the wafer are properly mounted by the positioning protrusions which differ according to the types of the electrical parts. The mere fact that the Budd patents mention "components" in general cannot be said to reasonably teach mounting electrical parts of *different*

Appln. No.: 10/655,879

4

Atty Docket: ALPSP131/F US02061

*types with different positioning protrusions, but having the same wafer structure, as claimed. In order to render the present invention anticipated or obvious based on the references, the claimed configuration having specific positioning protrusions and specific wafer structures must be taught in the cited art.*

In addition, none of the cited references are concerned with the problem which the inventors of the present application are attempting to solve, i.e., improper mounting of electrical parts. Since nothing in the cited references teaches or suggests use of (i) positioning protrusions of which positions differ according to the types of the electrical parts, and (ii) each of the electrical parts including a wafer of which structure is the same among the electrical parts, as discussed above, it is respectfully submitted that the teachings of Budd 026, Budd 027, and Schmidt, alone or in combination, do not suggest the claimed invention. Therefore, independent claim 4 and its dependent claims are believed to be allowable over the cited art. Withdrawal of the rejections is respectfully requested.

## II. NEW CLAIM 8

Claim 8 has been added herein. Support for the features recited in this claim is found at, for example, Fig. 2 of the present application and its related description of the invention.

It is respectfully submitted that nothing in the cited references teaches or suggests that "a distal end of the positioning protrusion does not extend to or beyond a surface of the circuit board," as claimed. In Fig. 3 of the Schmidt patent, for example, the cam contact assembly central shaft 46 and the finger securement members 63 extend beyond the surface of the circuit board 50. In addition, the flange 47 in Schmidt's Fig. 3 reaches (or is flush with) the surface of the circuit board 50, and thus, it cannot be said to teach the claimed feature that "a distal end of the positioning protrusion does not extend to ... a surface of the circuit board."

In addition to the reasons set forth above in connection with independent claim 4, claim 8 is believed to be allowable over the cited art in this regard as well.

**III. CONCLUSION**

Applicants believe that all pending claims are in condition for allowance, and respectfully request a Notice of Allowance at an early date. If the Examiner believes a telephone conference would expedite prosecution of this application, please telephone the undersigned at 510-663-1100, ext. 245.

Respectfully submitted,  
BEYER WEAVER & THOMAS, LLP



Haruo Yawata  
Limited Recognition under 37 CFR § 10.9(b)

P.O. Box 70250  
Oakland, CA 94612-0250  
510-663-1100, ext. 245

**BEFORE THE OFFICE OF ENROLLMENT AND DISCIPLINE  
UNITED STATES PATENT AND TRADEMARK OFFICE**

**LIMITED RECOGNITION UNDER 37 CFR § 10.9(b)**

Mr. Haruo Yawata is hereby given limited recognition under 37 CFR § 10.9(b) as an employee of Beyer Weaver & Thomas, LLP to prepare and prosecute patent applications wherein the patent applicant is the client of Beyer Weaver & Thomas, LLP, and the attorney or agent of record in the applications is a registered practitioner who is a member of Beyer Weaver & Thomas, LLP. This limited recognition shall expire on the date appearing below, or when whichever of the following events first occurs prior to the date appearing below: (i) Mr. Haruo Yawata ceases to lawfully reside in the United States, (ii) Mr. Haruo Yawata's employment with Beyer Weaver & Thomas, LLP ceases or is terminated, or (iii) Mr. Haruo Yawata ceases to remain or reside in the United States on an H-1 visa.

This document constitutes proof of such recognition. The original of this document is on file in the Office of Enrollment and Discipline of the U.S. Patent and Trademark Office.

**Expires: January 2, 2007**



Harry I. Moatz

Director of Enrollment and Discipline